Exhibit 1

Message

lliyan Zarov [meta.com] From: 11/20/2023 8:18:37 PM Sent: To: lliyan Zarov @meta.com]; Nikolay Bashlykov | meta.com Message summary [{"otherUserFbId":100083037918592,"threadFbId":null}] Subject: Nikolay Bashlykov (11/20/2023 11:38:31 PST): >hi Iliyan! Robert mentioned that you might have already the OpenWebMath dataset, could you point me to the path? >https://arxiv.org/pdf/2310.06786.pdf Iliyan Zarov (11/20/2023 11:44:27 PST): >hi Nikolay, sure, it's here - /fsx-llm/ Nikolay Bashlykov (11/20/2023 11:46:08 PST): >@silent amaxing, thx! did you run any experiments on it already? Iliyan Zarov (11/20/2023 11:47:25 PST): >Yep, I'm using it for a training/finetuning run I'm doing for reasoning, gives a pretty decent boost on stuff like gsm8k and math Nikolay Bashlykov (11/20/2023 11:48:38 PST): >cool! do you have any documents to read on that? Nikolay Bashlykov (11/20/2023 11:49:26 PST): palso do you know any other good math/reasoning datasets I should look into? or actually any other non-11ama-2 datasets that you think are valuable? Iliyan Zarov (11/20/2023 11:54:48 PST): >nothing detailed, I added it after I started training so I did some limited ablations to check that helps over and above libgen and the galactica datasets and it seems to do Iliyan Zarov (11/20/2023 11:55:09 PST): >well, libgen and galatica datasets are great but I guess you're fully aware of these 🙂 Nikolay Bashlykov (11/20/2023 11:55:50 PST): >yep 🙂 Iliyan Zarov (11/20/2023 11:56:15 PST): >I'll be trying adding some synthetic data as well sampled from the improved model, but it's still early days on that Nikolay Bashlykov (11/20/2023 11:56:36 PST): >that's interesting! Nikolay Bashlykov (11/20/2023 11:57:10 PST): >btw, is it the whole dataset? it's like 27G, but I thought 15B tokens should be ~60G Iliyan Zarov (11/20/2023 12:01:27 PST): it should be the whole thing yeah - I got it off hugging face. They report 6.32M rows of data and that's how many there are in the files total Iliyan Zarov (11/20/2023 12:02:29 PST): >do you have any other math/reasoning datasets you've been considering? Nikolay Bashlykov (11/20/2023 12:04:36 PST): >not really, but if you haven't talked to Viktor Kerkez, you can ask him - probably he has smth on top of the galactica Iliyan Zarov (11/20/2023 12:05:46 PST): >ah yes thanks, I'm in touch with him, he's been refreshing/expanding on the galactica corpus Nikolay Bashlykov (11/20/2023 12:08:11 PST): >also I updated the libgen dataset - basically removed some of the artifacts and outliers. I still need to move it to S3, but it's already on RSC: >fiction: ibgen/fiction/fiction_en_20231120 llibgen/scitech/scitech_en_20231120 >scitech: libgen/scimag/scimag_20231120 >scimag:

Iliyan Zarov (11/20/2023 12:10:02 PST):
>oh great! what did you remove? I took the scitech version from you and I think I only removed some of
the last pages with some heuristics as there were lots of indices, references, etc

Nikolay Bashlykov (11/20/2023 12:15:18 PST):
>basically some bad docs (based on token distribution), repetitions, copyright, emails:
https://docs.google.com/document

Iliyan Zarov (11/20/2023 12:16:46 PST):
>Awesome! I'll try out the modified version. Are you copying it to s3/AWS? If not I'll prob copy scitech
myself tomorrow

Nikolay Bashlykov (11/20/2023 12:18:30 PST):
>yep, copying it now, will update you once done

Nikolay Bashlykov (11/20/2023 12:18:37 PST):

>to S3